

Status of NUMI target effort

NT-06 leaks water somewhere at upstream end of target,
NOT at down-stream water turnaround where NT-05 did

Did further autopsy of NT-04, cutting off aluminum snout,
but without beam could not get it to leak water
over 2 hours at 250 psi pressure

Did beam scan to verify that horn that target inserts into is still in correct location
Scan went well, horn is still in correct place

Inserted a magnetic field probe into the horn at target location to see if
we could be magnetically killing target
Field at target is 2 to 3 x that expected, but not enough to do harm

Have reconditioned NT-01, it is now being installed
Expect beam to experiments Sat or Sun, Jun 11 or 12



NUMI MINOS target

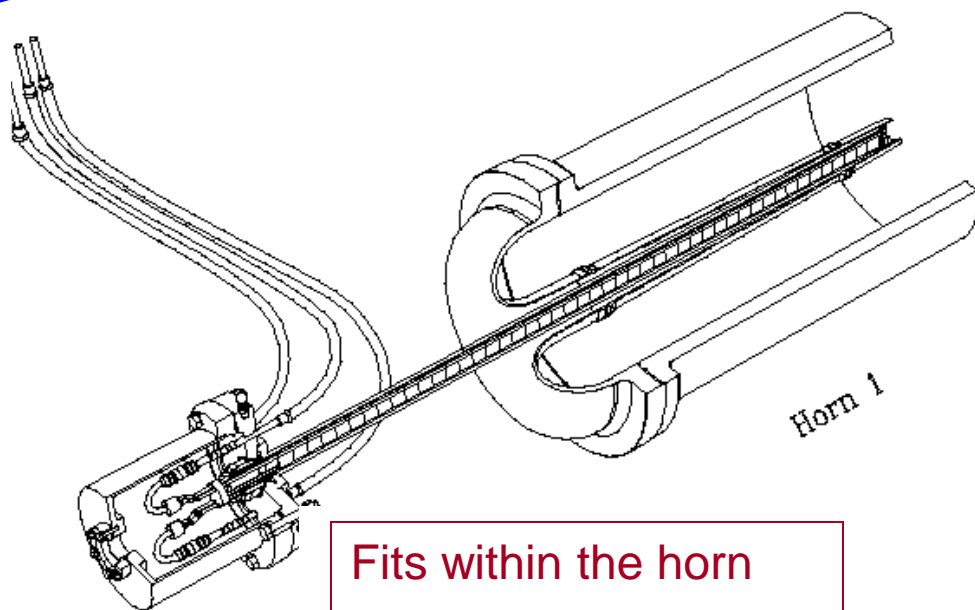
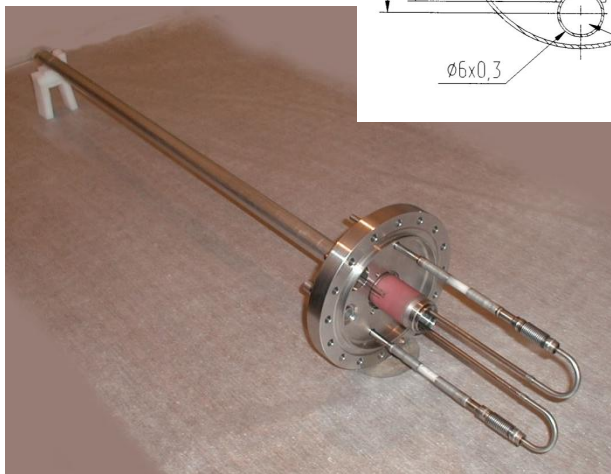
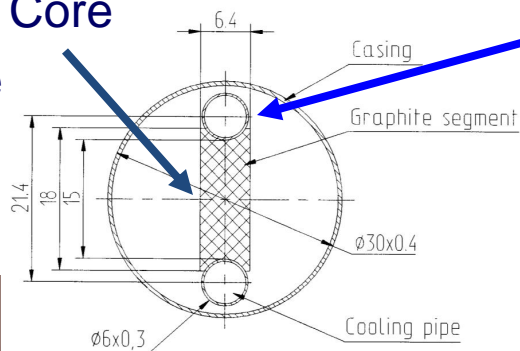
Designed with and constructed by IHEP Protvino Beams Group

2 int. length long; narrow so pions get out sides without re-interacting

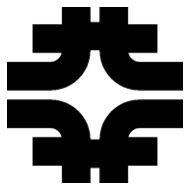


Graphite Fin Core
6.4 mm wide

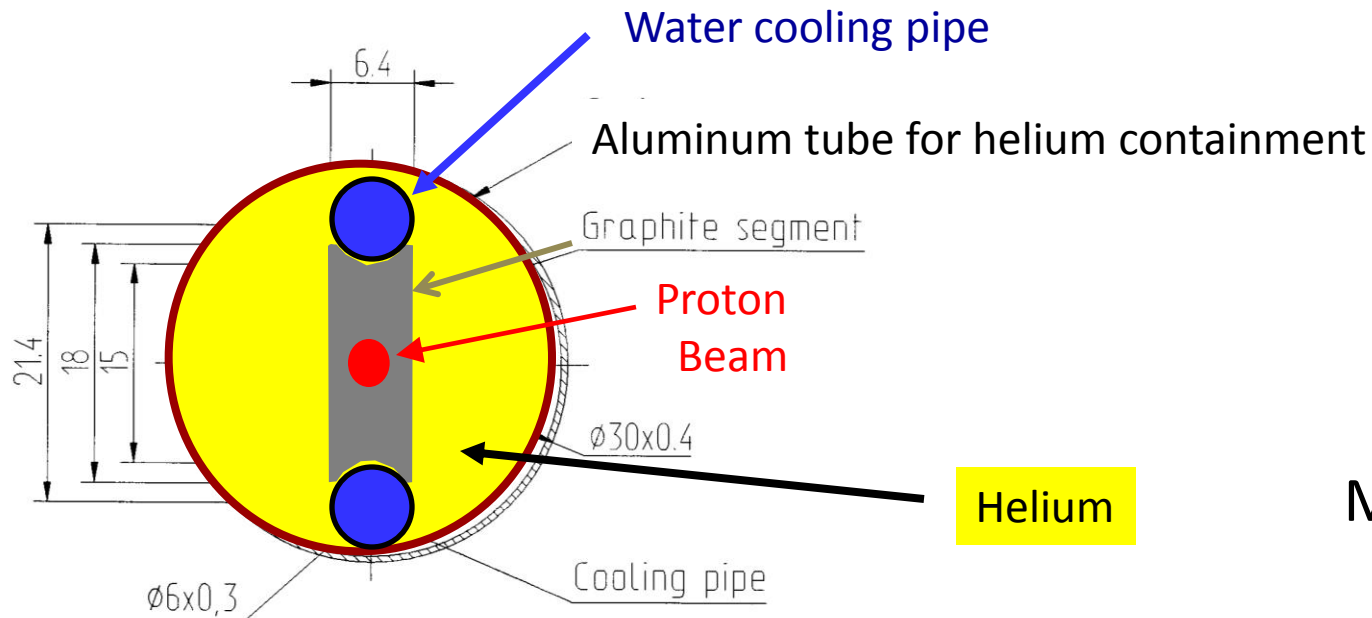
Water cooling tube



Fits within the horn
without touching.

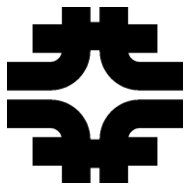


NUMI LE Target



MINOS LE target

All units mm



NT-06 reworked

Ream old weld of water-feed-through at base (not shown)
Wire EDM off old water-turn around (minimal vibration)
Clean up and make room for new connection tube (made special tool)
Micro-tig-weld new tip on
Re-weld water feed-through
Pressure leak test

new weld

